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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/723,016	11/27/2000	Masaki Morimatsu	SIMTEK5667	5642

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EXAMINER

ADDISON, KAREN B

ART UNIT	PAPER NUMBER
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2834

DATE MAILED: 04/17/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/723,016

Applicant(s)

MORIMATSU ET AL.

Examiner

Karen B Addison

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☐ Claim(s) ____ is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-18 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on ____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) ____.
- 4) ☐ Interview Summary (PTO-413) Paper No(s) ____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____

DETAILED ACTION

Claim Objections

1. Claim 1 objected to because of the following informalities: Claim 1 line 4 the phrase "one terminal end terminal connected" has a grammatical error. Appropriate correction is required.

Examiner suggest the phase " each of said conductors having one terminal end connected to at least one of said coil ends and the other terminal end connected to one external electrical connector."

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 1-5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Sakashita (5606208) in view Sakamoto (5969455).

Sakashita discloses fig.13 and 14 an component rotating machine comprised of a plurality of coils (42) each wound on the pole teeth (41c) of a core (41) through a bobbin (41,41c, 44), the bobbin having portions surrounding the pole teeth of the core, a plurality of wiring conductors (42) each of the conductors having one terminal end (51) connected to one external electrical connector (51b). Shashita does not disclose bobbins comprised of mating halves.

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Sakamoto teaches in fig.14 concept of a bobbin comprising mating halves (1, 1b, 53,54,) encircle the pole teeth wherein the conductor are all carried by one of the mating halves for the purpose of forming a generator circuit. Therefore, it would be obvious to one having ordinary skill in the art at the time the invention was made to modify the rotating machine of Shashita with the bobbin mating halves of Sakamoto for the purpose of insulating the stator.

4. Claims 1 and 6-9 is rejected under 35 U.S.C. 103(a) as being unpatentable over Sakashita (5606208) in view of Atherton (4656378).

As seen above in paragraph 3; Sakashita discloses substantially all the claim features including the coils combined into at least two groups with the coils of each group being continuously wound from a single wire conductor extending between ends of the wiring conductors. Wherein the other ends of said wire conductor are connected to other the other terminal end of the wiring connectors (51a) at a common external electrical connector. Sakashita does not disclose the external electrical connector being adapted to cooperate with a detachable electrical connector through a male and female connector.

Atherton teaches the concept of having a motor stator in fig.1 comprising a stator (2) core having coils windings (6) connected a common external electrical connector (44) adapted to cooperate with a detachable electrical connector through a male (46), female (44) connection wherein the male, female connector is made in a direction that extends radially to the axis of rotation of the machine for the purpose of obtaining electrical power from the conductors. Therefore, it would have been obvious to one having

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ordinary skill in the art at the time the invention was made to modify the rotating machine of Shashita with the external electrical connector of Atherton for the purpose of supplying power to the stator.

5. Claims 1 and 11-14 is rejected under 35 U.S.C. 103(a) as being unpatentable over Shakashita (5606208) in view of Atherton (4656378).

As seen above in paragraph 4; Sakashita discloses substantially all the claim features however, Sakashita does not disclose the external electrical connector being adapted to cooperate with a detachable electrical connector through a male and female connector.

Atherton teaches the concept of having a motor stator in fig.1 comprising a stator (2) core having coils windings (6) connected to a common external electrical connector (44) adapted to cooperate with a detachable electrical connector through a male (46), female (44) connection wherein the male, female connector is made in a direction that extends radially to the axis of rotation of the machine for the purpose of obtaining electrical power from the conductors. Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the rotating machine of Sakashita with the external electrical connector of Atherton for the purpose of supplying power to the stator.

6. Claim 10 and 15-18 rejected under 35 U.S.C. 103(a) as being unpatentable over Sakashita in view of Atherton as applied to claim 1 and 11-14 above, and further in view of Arai (JP7-163077) in view of Sakamoto (5969455).

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As seen above in paragraph 5, Shakashita discloses a rotating machine comprised of a plurality of coils each wound on the pole teeth through a bobbin having portions surrounding the pole teeth of the core, a plurality of wiring conductors each of the conductors having one terminal end; and Atherton teaches a stator core having coils windings connected to a common external electrical connector.

However, neither Shakashita nor Sakamoto discloses a terminal hole (providing a circuit connecting for the connecting coils ends), connecting block, and bobbin halves.

Shakashita discloses in fig.1 and 3 a stator having a plurality of coil bobbins (4) connecting respectively to a pair of coils connected to the connecting terminal (10) comprising a terminal hole (13) and a connecting block (21) for the purpose of providing an electrically connections between a coil end with the terminal. Sakashita does not disclose a bobbin having mating halves.

Sakamoto teaches in fig.14 concept of a bobbin comprising mating halves (1, 1b, 53,54,) encircle the pole teeth wherein the conductor are all carried by one of the mating halves for the purpose of forming a generator circuit. Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the rotating machine of Shashita with the teaching of the external electrical connector of Atherton and modify it with terminal hole and connector block Arai and the bobbins mating halves of Sakamoto for the purpose of reducing the total size of the stator.

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Referring to claims 5, no patentable weight has been given to the method of manufacturing limitations (i. e. molded) since "even though product-by-process claims are limited by and defined by the process, determination of patentability is based on the product itself. The patentability of a product does not depend on its method of production. If the product in the product-by-process claim is the same as or obvious from a product of the prior art, the claim is unpatentable even though the prior product was made by a different process." *In re Thorpe*, 777 F.2d 695, 698, 227 USPQ 964, 966 (Fed. Cir. 1985)

Referring to claim 10: the method of forming the device is not germane to the issue of patentability of the device itself. Therefore, this limitation had not been given patentable weight.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Karen B Addison whose telephone number is 703-306-5855. The examiner can normally be reached on 8:00 to 4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nestor Ramirez can be reached on 703-308-1317. The fax phone numbers for the organization where this application or proceeding is assigned are 703-305-3431 for regular communications and 703-305-3431 for After Final communications.


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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.

KBA
April 11, 2002


NESTOR RAMIREZ
SUPERVISORY PATENT EXAMINER
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